

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101518,341
Source: PCT
Date Processed by STIC: 1-5-05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 101S18,341

CRF Edit Date: 1-5-05
Edited by: TCL

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

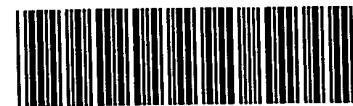
Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: invalid beginning/end-of-file text : _____ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:



PCT

RAW SEQUENCE LISTING DATE: 01/05/2005
PATENT APPLICATION: US/10/518,341 TIME: 11:04:03

Input Set : A:\pto.kd.txt
 Output Set: N:\CRF4\01052005\J518341.raw

```

5 <110> APPLICANT: VAN ELS, Cecile Antoinette Carola Maria
6      VAN BLEEK, Gerarda Maria
7      BOOG, Marie-Claire Josefa Pia
9 <120> TITLE OF INVENTION: MHC class II haplotype specific immunodominancy of
10     peptides derived from RSV fusion (F) or attachment
11     (G) proteins
15 <130> FILE REFERENCE: 28902.0014
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/518,341
18 <141> CURRENT FILING DATE: 2004-12-17
20 <150> PRIOR APPLICATION NUMBER: PCT/NL03/00454
21 <151> PRIOR FILING DATE: 2003-06-20
23 <150> PRIOR APPLICATION NUMBER: EP 02077461.8
24 <151> PRIOR FILING DATE: 2002-06-20
26 <160> NUMBER OF SEQ ID NOS: 29
30 <170> SOFTWARE: PatentIn version 3.1
34 <210> SEQ ID NO: 1
36 <211> LENGTH: 574
38 <212> TYPE: PRT
40 <213> ORGANISM: respiratory syncytial virus
44 <400> SEQUENCE: 1
46 Met Glu Leu Leu Ile Leu Lys Ala Asn Ala Ile Thr Thr Ile Leu Thr
47 1           5          10          15
50 Ala Val Thr Phe Cys Phe Ala Ser Gly Gln Asn Ile Thr Glu Glu Phe
51           20         25          30
54 Tyr Gln Ser Thr Cys Ser Ala Val Ser Lys Gly Tyr Leu Ser Ala Leu
55           35         40          45
58 Arg Thr Gly Trp Tyr Thr Ser Val Ile Thr Ile Glu Leu Ser Asn Ile
59           50         55          60
62 Lys Glu Asn Lys Cys Asn Gly Thr Asp Ala Lys Val Lys Leu Ile Lys
63 65           70         75          80
66 Gln Glu Leu Asp Lys Tyr Lys Asn Ala Val Thr Glu Leu Gln Leu Leu
67           85         90          95
70 Met Gln Ser Thr Pro Pro Thr Asn Asn Arg Ala Arg Arg Glu Leu Pro
71           100        105         110
74 Arg Phe Met Asn Tyr Thr Leu Asn Asn Ala Lys Lys Thr Asn Val Thr
75           115        120         125
78 Leu Ser Lys Lys Arg Lys Arg Arg Phe Leu Gly Phe Leu Leu Gly Val
79           130        135         140
82 Gly Ser Ala Ile Ala Ser Gly Val Ala Val Ser Lys Val Leu His Leu
83 145           150        155         160
86 Glu Gly Glu Val Asn Lys Ile Lys Ser Ala Leu Leu Ser Thr Asn Lys
87           165        170         175
90 Ala Val Val Ser Leu Ser Asn Gly Val Ser Val Leu Thr Ser Lys Val
  
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/518,341

DATE: 01/05/2005
TIME: 11:04:03

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\01052005\J518341.raw

91	180	185	190
94	Leu Asp Leu Lys Asn Tyr Ile Asp Lys Gln Leu Leu Pro Ile Val Asn		
95	195	200	205
98	Lys Gln Ser Cys Ser Ile Ser Asn Ile Glu Thr Val Ile Glu Phe Gln		
99	210	215	220
102	Gln Lys Asn Asn Arg Leu Leu Glu Ile Thr Arg Glu Phe Ser Val Asn		
103	225	230	235
106	Ala Gly Val Thr Thr Pro Val Ser Thr Tyr Met Leu Thr Asn Ser Glu		
107	245	250	255
110	Leu Leu Ser Leu Ile Asn Asp Met Pro Ile Thr Asn Asp Gln Lys Lys		
111	260	265	270
114	Leu Met Ser Asn Asn Val Gln Ile Val Arg Gln Gln Ser Tyr Ser Ile		
115	275	280	285
118	Met Ser Ile Ile Lys Glu Glu Val Leu Ala Tyr Val Val Gln Leu Pro		
119	290	295	300
122	Leu Tyr Gly Val Ile Asp Thr Pro Cys Trp Lys Leu His Thr Ser Pro		
123	305	310	315
126	Leu Cys Thr Thr Asn Thr Lys Glu Gly Ser Asn Ile Cys Leu Thr Arg		
127	325	330	335
130	Thr Asp Arg Gly Trp Tyr Cys Asp Asn Ala Gly Ser Val Ser Phe Phe		
131	340	345	350
134	Pro Gln Ala Glu Thr Cys Lys Val Gln Ser Asn Arg Val Phe Cys Asp		
135	355	360	365
138	Thr Met Asn Ser Leu Thr Leu Pro Ser Glu Ile Asn Leu Cys Asn Val		
139	370	375	380
142	Asp Ile Phe Asn Pro Lys Tyr Asp Cys Lys Ile Met Thr Ser Lys Thr		
143	385	390	395
146	Asp Val Ser Ser Val Ile Thr Ser Leu Gly Ala Ile Val Ser Cys		
147	405	410	415
150	Tyr Gly Lys Thr Lys Cys Thr Ala Ser Asn Lys Asn Arg Gly Ile Ile		
151	420	425	430
154	Lys Thr Phe Ser Asn Gly Cys Asp Tyr Val Ser Asn Lys Gly Met Asp		
155	435	440	445
158	Thr Val Ser Val Gly Asn Thr Leu Tyr Tyr Val Asn Lys Gln Glu Gly		
159	450	455	460
162	Lys Ser Leu Tyr Val Lys Gly Glu Pro Ile Ile Asn Phe Tyr Asp Pro		
163	465	470	475
166	Leu Val Phe Pro Ser Asp Glu Phe Asp Ala Ser Ile Ser Gln Val Asn		
167	485	490	495
170	Glu Lys Ile Asn Gln Ser Leu Ala Phe Ile Arg Lys Ser Asp Glu Leu		
171	500	505	510
174	Leu His Asn Val Asn Ala Gly Lys Ser Thr Thr Asn Ile Met Ile Thr		
175	515	520	525
178	Thr Ile Ile Ile Val Ile Ile Leu Leu Ser Leu Ile Ala Val		
179	530	535	540
182	Gly Leu Leu Leu Tyr Cys Lys Ala Arg Ser Thr Pro Val Thr Leu Ser		
183	545	550	555
186	Lys Asp Gln Leu Ser Gly Ile Asn Asn Ile Ala Phe Ser Asn		
187	565	570	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/518,341

DATE: 01/05/2005
TIME: 11:04:03

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\01052005\J518341.raw

190 <210> SEQ ID NO: 2
 192 <211> LENGTH: 306
 194 <212> TYPE: PRT
 196 <213> ORGANISM: respiratory syncytial virus
 200 <400> SEQUENCE: 2
 202 Met Ser Lys Asn Lys Asp Gln Arg Thr Ala Lys Thr Leu Glu Arg Thr
 203 1 5 10 15
 206 Trp Asp Thr Leu Asn His Leu Leu Phe Ile Ser Ser Cys Leu Tyr Lys
 207 20 25 30
 210 Leu Asn Leu Lys Ser Val Ala Gln Ile Thr Leu Ser Ile Leu Ala Met
 211 35 40 45
 214 Ile Ile Ser Thr Ser Leu Ile Ile Ala Ala Ile Ile Phe Ile Ala Ser
 215 50 55 60
 218 Ala Asn His Lys Val Thr Pro Thr Thr Ala Ile Ile Gln Asp Ala Thr
 219 65 70 75 80
 222 Ser Gln Ile Lys Asn Thr Thr Pro Thr Tyr Leu Thr Gln Asn Pro Gln
 223 85 90 95
 226 Leu Gly Ile Ser Pro Ser Asn Pro Ser Glu Ile Thr Ser Gln Ile Thr
 227 100 105 110
 230 Thr Ile Leu Ala Ser Thr Thr Pro Gly Val Lys Ser Thr Leu Gln Ser
 231 115 120 125
 234 Thr Thr Val Lys Thr Lys Asn Thr Thr Thr Gln Thr Gln Pro Ser
 235 130 135 140
 238 Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Ser Lys Pro Asn
 239 145 150 155 160
 242 Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys
 243 165 170 175
 246 Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys
 247 180 185 190
 250 Lys Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Leu
 251 195 200 205
 254 Lys Thr Thr Lys Lys Asp Pro Lys Pro Gln Thr Thr Lys Ser Lys Glu
 255 210 215 220
 258 Val Pro Thr Thr Lys Pro Thr Glu Glu Pro Thr Ile Asn Thr Thr Lys
 259 225 230 235 240
 262 Thr Asn Ile Ile Thr Thr Leu Leu Thr Ser Asn Thr Thr Gly Asn Pro
 263 245 250 255
 266 Glu Leu Thr Ser Gln Met Glu Thr Phe His Ser Thr Ser Ser Glu Gly
 267 260 265 270
 270 Asn Pro Ser Pro Ser Gln Val Ser Thr Thr Ser Glu Tyr Pro Ser Gln
 271 275 280 285
 274 Pro Ser Ser Pro Pro Asn Thr Pro Arg Gln Ser Pro Pro Asn Thr Pro
 275 290 295 300
 278 Arg Gln
 279 305
 282 <210> SEQ ID NO: 3
 284 <211> LENGTH: 17
 286 <212> TYPE: PRT
 288 <213> ORGANISM: respiratory syncytial virus

RAW SEQUENCE LISTING DATE: 01/05/2005
PATENT APPLICATION: US/10/518,341 TIME: 11:04:03

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\01052005\J518341.raw

292 <400> SEQUENCE: 3
294 Lys Ala Asn Ala Ile Thr Ile Leu Thr Ala Val Thr Phe Cys Phe Ala
295 1 5 10 15
298 Ser
302 <210> SEQ ID NO: 4
304 <211> LENGTH: 18
306 <212> TYPE: PRT
308 <213> ORGANISM: respiratory syncytial virus
312 <400> SEQUENCE: 4
314 Thr Ile Leu Thr Ala Val Thr Phe Cys Phe Ala Ser Gly Gln Asn Ile
315 1 5 10 15
318 Thr Glu
322 <210> SEQ ID NO: 5
324 <211> LENGTH: 18
326 <212> TYPE: PRT
328 <213> ORGANISM: respiratory syncytial virus
332 <400> SEQUENCE: 5
334 Gly Gln Asn Ile Thr Glu Glu Phe Tyr Gln Ser Thr Cys Ser Ala Val
335 1 5 10 15
338 Ser Lys
342 <210> SEQ ID NO: 6
344 <211> LENGTH: 18
346 <212> TYPE: PRT
348 <213> ORGANISM: respiratory syncytial virus
352 <400> SEQUENCE: 6
354 Glu Phe Tyr Gln Ser Thr Cys Ser Ala Val Ser Lys Gly Tyr Leu Ser
355 1 5 10 15
358 Ala Leu
362 <210> SEQ ID NO: 7
364 <211> LENGTH: 18
366 <212> TYPE: PRT
368 <213> ORGANISM: respiratory syncytial virus
372 <400> SEQUENCE: 7
374 Ser Val Ile Thr Ile Glu Leu Ser Asn Ile Lys Glu Asn Lys Cys Asn
375 1 5 10 15
378 Gly Thr
382 <210> SEQ ID NO: 8
384 <211> LENGTH: 18
386 <212> TYPE: PRT
388 <213> ORGANISM: respiratory syncytial virus
392 <400> SEQUENCE: 8
394 Ile Lys Gln Glu Leu Asp Lys Tyr Lys Asn Ala Val Thr Glu Leu Gln
395 1 5 10 15
398 Leu Leu
402 <210> SEQ ID NO: 9
404 <211> LENGTH: 18
406 <212> TYPE: PRT
408 <213> ORGANISM: respiratory syncytial virus
412 <400> SEQUENCE: 9

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/518,341

DATE: 01/05/2005
 TIME: 11:04:03

Input Set : A:\pto.kd.txt
 Output Set: N:\CRF4\01052005\J518341.raw

```

414 Lys Tyr Lys Asn Ala Val Thr Glu Leu Gln Leu Leu Met Gln Ser Thr
415 1           5          10          15
418 Pro Pro
422 <210> SEQ ID NO: 10
424 <211> LENGTH: 18
426 <212> TYPE: PRT
428 <213> ORGANISM: respiratory syncytial virus
432 <400> SEQUENCE: 10
434 Asn Lys Ala Val Val Ser Leu Ser Asn Gly Val Ser Val Leu Thr Ser
435 1           5          10          15
438 Lys Val
442 <210> SEQ ID NO: 11
444 <211> LENGTH: 18
446 <212> TYPE: PRT
448 <213> ORGANISM: respiratory syncytial virus
452 <400> SEQUENCE: 11
454 Arg Leu Leu Glu Ile Thr Arg Glu Phe Ser Val Asn Ala Gly Val Thr
455 1           5          10          15
458 Thr Pro
462 <210> SEQ ID NO: 12
464 <211> LENGTH: 18
466 <212> TYPE: PRT
468 <213> ORGANISM: respiratory syncytial virus
472 <400> SEQUENCE: 12
474 Arg Glu Phe Ser Val Asn Ala Gly Val Thr Thr Pro Val Ser Thr Tyr
475 1           5          10          15
478 Met Leu
482 <210> SEQ ID NO: 13
484 <211> LENGTH: 18
486 <212> TYPE: PRT
488 <213> ORGANISM: respiratory syncytial virus
492 <400> SEQUENCE: 13
494 Pro Ile Thr Asn Asp Gln Lys Leu Met Ser Asn Asn Val Gln Ile
495 1           5          10          15
498 Val Arg
502 <210> SEQ ID NO: 14
504 <211> LENGTH: 17
506 <212> TYPE: PRT
508 <213> ORGANISM: respiratory syncytial virus
512 <400> SEQUENCE: 14
514 Lys Leu Met Ser Asn Asn Val Gln Ile Val Arg Gln Gln Ser Tyr Ser
515 1           5          10          15
518 Ile
522 <210> SEQ ID NO: 15
524 <211> LENGTH: 18
526 <212> TYPE: PRT
528 <213> ORGANISM: respiratory syncytial virus
532 <400> SEQUENCE: 15
534 Glu Val Leu Ala Tyr Val Val Gln Leu Pro Leu Tyr Gly Val Ile Asp

```

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/518,341

DATE: 01/05/2005
TIME: 11:04:04

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\01052005\J518341.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number